## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Withdrawn) A method for manufacturing a semiconductor device, comprising:

forming a buried layer of a semiconductor substrate;

forming an active region adjacent at least a portion of the buried layer;

forming an isolation structure adjacent at least a portion of the active region;

forming a gate oxide adjacent at least a portion of the active region;

forming a polysilicon layer adjacent at least a portion of the gate oxide;

removing at least a portion of the polysilicon layer to form a polysilicon definition structure, wherein the polysilicon definition structure at least substantially surrounds and defines an emitter contact region; and

forming an implant region of the emitter contact region, wherein the implant region is self-aligned.

2. (Withdrawn) The method of Claim 1, wherein removing at least a portion of the polysilicon layer to form a polysilicon definition structure comprises:

masking a first portion of the polysilicon layer, leaving a second portion of the polysilicon layer unmasked; and

removing the second portion of the polysilicon layer.

3. (Withdrawn) The method of Claim 1, further comprising forming an implant region of a base contact region, wherein the base contact region is proximate an outer edge of the polysilicon definition structure.

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- 4. (Withdrawn) The method of Claim 1, wherein a width of the polysilicon definition structure is approximately 0.4 to 0.6 microns.
- 5. (Withdrawn) The method of Claim 1, wherein a width of the emitter contact region is approximately 0.6 microns.
- 6. (Withdrawn) The method of Claim 1, wherein the isolation structure comprises a local oxidation on silicon (LOCOS) isolation structure.
- 7. (Withdrawn) The method of Claim 1, wherein the isolation structure comprises a shallow trench isolation (STI) structure.
- 8. (Withdrawn) The method of Claim 1, wherein the active region has a depth of approximately 3.5 microns.
- 9. (Withdrawn) The method of Claim 1, further comprising forming an emitter contact at the emitter contact region.
- 10. (Withdrawn) The method of Claim 1, further comprising forming one or more spacer structures adjacent the polysilicon definition structure.
- 11. (Withdrawn) The method of Claim 1, wherein the spacer structures comprise a nitride.

- 12. (Currently Amended) A semiconductor device, comprising:
- a buried layer of a semiconductor substrate;
- an active region adjacent at least a portion of the buried layer;
- an isolation structure adjacent at least a portion of the active region;
- a gate oxide adjacent at least a portion of the active region;
- a polysilicon definition structure adjacent at least a portion of the gate oxide, wherein the polysilicon definition structure at least substantially surrounds and defines an emitter contact region;
- <u>a base contact region proximate an outer edge of the polysilicon definition</u>
  <u>structure;</u> and

an implant region of the emitter contact region, wherein the implant region is self-aligned during formation.

- 13. (Currently Amended) The semiconductor device of Claim 12, further comprising an implant region of a <u>the</u> base contact region, wherein the base contact region is proximate an outer edge of the polysilicon definition structure.
- 14. (Original) The semiconductor device of Claim 12, wherein a width of the polysilicon definition structure is approximately 0.4 to 0.6 microns.
- 15. (Original) The semiconductor device of Claim 12, wherein a width of the emitter contact region is approximately 0.6 microns.
- 16. (Original) The semiconductor device of Claim 12, wherein the isolation structure comprises a local oxidation on silicon (LOCOS) isolation structure.

- 17. (Original) The semiconductor device of Claim 12, wherein the isolation structure comprises a shallow trench isolation (STI) structure.
- 18. (Original) The semiconductor device of Claim 12, wherein the active region has a depth of approximately 3.5 microns.
- 19. (Original) The semiconductor device of Claim 12, further comprising an emitter contact at the emitter contact region.
- 20. (Original) The semiconductor device of Claim 12, further comprising one or more spacer structures adjacent the polysilicon definition structure.
- 21. (Original) The semiconductor device of Claim 12, wherein the spacer structures comprise a nitride.

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